

Title (en)
FILM MIRROR, FILM MIRROR MANUFACTURING METHOD, FILM MIRROR FOR PHOTOVOLTAIC POWER GENERATION, AND REFLECTION
DEVICE FOR PHOTOVOLTAIC POWER GENERATION

Title (de)
FOLIENSPIEGEL, HERSTELLUNGSVERFAHREN FÜR FOLIENSPIEGEL, FOLIENSPIEGEL ZUR FOTOVOLTAISCHEN STROMERZEUGUNG
UND REFLEXIONSVORRICHTUNG ZUR FOTOVOLTAISCHEN ENERGIEERZEUGUNG

Title (fr)
MIROIR À FILM, PROCÉDÉ DE FABRICATION DE MIROIR À FILM, MIROIR À FILM POUR GÉNÉRATION D'ÉNERGIE PHOTOVOLTAÏQUE ET
DISPOSITIF DE RÉFLEXION POUR GÉNÉRATION D'ÉNERGIE PHOTOVOLTAÏQUE

Publication
EP 2801847 A4 20150826 (EN)

Application
EP 12864094 A 20121228

Priority
• JP 2012001108 A 20120106
• JP 2012084151 W 20121228

Abstract (en)
[origin: EP2801847A1] The purpose of the present invention is to provide a film mirror having a high reflectivity for efficiently concentrating solar light and having excellent weather resistance, and to provide a method for manufacturing the film mirror, a film mirror for photovoltaic power generation, and a reflection device for photovoltaic power generation. This film mirror of the present invention is a film mirror 10a in which a metal reflective layer 3 is disposed above a resin substrate 1. The film mirror is characterized in that it is provided with, closer to the light incident side than the metal reflective layer 3, an interface reflective layer (dielectric reflective layer) 6 having at least one set of a high refractive index layer and a low refractive index layer that are adjacent to each other, and at least one of the high refractive index layer and the low refractive index layer contains a water soluble polymer and metal oxide particles.

IPC 8 full level
G02B 5/08 (2006.01); **B32B 15/08** (2006.01); **F24S 23/70** (2018.01); **H01L 31/054** (2014.01)

CPC (source: EP US)
B05D 5/063 (2013.01 - US); **B32B 15/08** (2013.01 - EP US); **B32B 27/306** (2013.01 - EP US); **F24S 23/82** (2018.04 - EP US); **F24S 40/40** (2018.04 - EP); **G02B 5/0866** (2013.01 - EP US); **G02B 19/0019** (2013.01 - EP US); **G02B 19/0042** (2013.01 - EP US); **H01L 31/056** (2014.12 - EP US); **B32B 2307/416** (2013.01 - EP US); **B32B 2307/418** (2013.01 - EP US); **B32B 2307/712** (2013.01 - EP US); **B32B 2457/12** (2013.01 - EP US); **B32B 2551/08** (2013.01 - EP US); **G02B 1/14** (2015.01 - EP US); **Y02E 10/40** (2013.01 - EP US); **Y02E 10/52** (2013.01 - EP US)

Citation (search report)
• [IY] JP 2009086659 A 20090423 - MITSUBISHI CHEM CORP
• [Y] WO 2010078105 A1 20100708 - 3M INNOVATIVE PROPERTIES CO [US], et al
• [Y] WO 2010078289 A2 20100708 - 3M INNOVATIVE PROPERTIES CO [US], et al
• [Y] JP 2010231155 A 20101014 - REIKO KK
• [Y] JP 2008003243 A 20080110 - FUJIFILM CORP
• See references of WO 2013103139A1

Cited by
CN111562636A; US11858236B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2801847 A1 20141112; **EP 2801847 A4 20150826**; JP 6176116 B2 20170809; JP WO2013103139 A1 20150511;
US 2014340741 A1 20141120; US 9759844 B2 20170912; WO 2013103139 A1 20130711

DOCDB simple family (application)
EP 12864094 A 20121228; JP 2012084151 W 20121228; JP 2013552430 A 20121228; US 201214370539 A 20121228